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# AN INDEX TO THE MUSEUM BOLTENIANUM

BY WILLIAM HEALEY DALL 

(PUBLICATION 2360)

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## AN INDEX TO THE MUSEUM BOLTENIANUM By WILLIAM HEALEY DALL

The Museum Boltenianum is a publication which, until recent years, has been little known. It represents the arrangement of his cabinet of shells by J. F. Bolten, of Hamburg, a lifelong student of conchology who was dissatisfied with the crude method of Linnaeus. He died without publishing his system which was issued at Hamburg in 1798, at the expense of the family, with supplementary references by a friend of conchological tastes, Herr Peter Friedrich Roeding, and with a Latin introductory by the Abbe Lichtenstein.

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It was the hope of the family that the publication would not only perpetuate the father's researches, but might lead to the purchase of the collection as a whole by some museum or individual. That it was brought to the attention of scientific men of the time is evident from the fact that Lamarck adopted several of Bolten's generic names a year or two later, though without giving their author credit for them.

Some twenty years passed and no sale in block having been made, the family decided to dispose of the collection by auction in separate lots. A new edition of the catalogue was issued with four lithographic plates of rare species, supplemented by a catalogue of minerals and one of objects of art, the whole to be sold by Johannes Noodt, auctioneer, who supplied a "Vorwort" and reprinted Lichtenstein's Latin preface but omitted the preface by Roeding. This publication formed an octavo of four unpaged leaves, 156 pages, and four plates. It was issued in January, 1819. The original issue was a 16mo of viii and 199 pages without plates, and is stated on the title-page to be "Pars secunda"; the "Pars prima" having contained probably the two catalogues of minerals and art objects which follow the shells in the edition of 1819.

The publication and wider distribution of the sale catalogue again attracted the attention of conchologists to the Boltenian system, but the Lamarckian classification had by this time been 233227

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generally accepted, no rules of priority were at that time in operation, and the attempts of a few systematists later to recognize Bolten's names brought out little but adverse criticism. Of the European naturalists who espoused his cause Mörch of Copenhagen and Henry and Arthur Adams of London were the most prominent. Sylvanus Hanley also noticed the book.

With the increasing complexity of nomenclature the observance of the rule of priority for scientific names became an obvious necessity.

As the negligent methods of the earlier systematists had prevailed for more than a century and many untenable names had become familiar, the reforms required met much opposition which has not yet entirely subsided. Yet much progress toward the establishment of a practically stable nomenclature for the Mollusca has been made. The fact that the edition of 1798 was the publication of a manuscript and not an "auctioneer's catalogue" disposes of one of several fallacious criticisms.

The two editions of the Museum Boltenianum having been long out of print, it became of much importance to systematists to have the work reprinted, and, by private subscription, aided by a small grant from the American Association for the Advancement of Science, a phototypic reproduction from the British Museum copy of the 1798 edition was prepared and issued by Sherborn and Sykes in 1906.<sup>1</sup> The funds in hand did not permit the addition of an index to the multitude of names contained in this small volume. The present writer has therefore, in his leisure moments compiled one. So many of these names are the first binomial names applied to the species of shells they refer to, that the existence of some easy and feasible method of detecting them is urgently needed by systematic workers on the Mollusca.

As will be seen by Roeding's preface, in order that Bolten's specific names might be identified, the former added to the original manuscript, references to Gmelin's edition of the Systema Naturæ of Linnaeus (1792) when the species had been named therein, and for these and the new names also gave references to figures in various iconographies, especially to the great Monograph en-

<sup>&</sup>lt;sup>1</sup>C. Davies Sherborn and E. R. Sykes, British Museum (Nat. History), Mar., 1906. 8°. Published by F. W. Reader, 5 Lambs Conduit Street, London, England.

titled the Conchylien Cabinet by Martini and Chemnitz. If these authors had adopted the Linnaean system of nomenclature as did their friend and contemporary Lorenz Spengler, an enormous amount of trouble would have been saved those who came after them. However, in 1840 Dr. Ludwig Pfeiffer published a critical register of the species figured in the Conchylien Cabinet,<sup>2</sup> in which he supplied the binary names of Linnaeus, Gmelin, Lamarck and others applicable to the species figured in the Cabinet. Unfortunately, Pfeiffer was not at that time acquainted with Bolten's work and Bolten's names, which precede those of Lamarck in many cases, are not referred to.

Bolten's names are binomial in the Linnaean sense, the genera have frequently brief diagnostic characters in Latin with usually a German translation. His specific names, by the pious care of his friend Roeding, are accompanied by references to Gmelin's Systema and to figures in the Conchylien Cabinet and elsewhere, in nearly all cases. When Roeding could find no figures corresponding to a shell the name remains "nude" and of course invalid. Still for the sake of completeness these names, properly discriminated from the others by a dagger mark (†), are included in the index now offered. But the vast majority of Bolten's names correspond to the requirements of the International code of Nomenclature and are unquestionably valid. Synonyms are here indicated by an asterisk. When no authority is cited, the name is of Bolten. The serial species-number under each of Bolten's genera is enclosed in parentheses, followed by the page number of the edition of 1798. There are about 30 missing serial numbers omitted by a printer's error in the original and 46 serial numbers are duplicated by an analogous error. I have also included from Pfeiffer's register his names for all the species figured in the Conchylien Cabinet and cited by Roeding. These names, with the author of each properly indicated are included on the assumption that Pfeiffer's identifications are to be relied on. A list of the abbreviations used is given at the end of this introduction.

In order that all the facts should be at the disposition of those who may consult this index, a translation follows by Mrs. Marian Baker, instructor in Latin at the Central High School of Wash-

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<sup>&</sup>lt;sup>3</sup> Kritisches Register zu Martini und Chemnitz's systematischem Konchylien-Kabinet, Kassel, Th. Fischer, 1840, pp. viii, 112, 8°.

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ington, D. C., of Lichtenstein's Latin address to the reader in the 1798 edition. Also a translation of Roeding's German preface to the same edition, and a translation of the preface of Johannes Noodt to the edition of 1819, when the work was reprinted for use in disposing by auction of the collection. These German translations are due to the courtesy of Prof. Paul Bartsch of the Medical Department of Howard University. To both these translators I am under obligations, for relieving me of any anxiety as to the strict accuracy of my own rendering of the original into English.

Bolten's classification was purely conchological and based upon form, rather than minor if perhaps more important characters. Yet it was far in advance as a natural system of any previously proposed, including that of Linnaeus, which was at that time in general use. It remained for the combined researches of Lamarck and Cuvier, 18 years later, to propose a system based on anatomical structure with results which in many cases confirmed those derived by the acute intelligence of Bolten from a study of the forms of the shells.

The following abbreviations have been used for the titles of works in which figures or names are referred to by Roeding.

The relation of the Lamarckian and other modern specific names to those of Bolten in the Index, is indicated by the serial and page number of Bolten, which immediately follow the Lamarckian reference on the same line. A review of the relation of the generic names of Bolten to subsequently proposed names will be found in the Journal of Conchology (Leeds), volume XI, No. 10, pp. 294-297, April, 1906, where types are assigned to such as are not already provided with them according to the rules of nomenclature.

## LIST OF ABBREVIATIONS USED IN THE INDEX

Arg. ...... Argenville, Conchyliologie, 1772.
Beech. Voy.... Gray and Sowerby in the Zoology of the Voyage of the Blossom, Capt. Beechey, 1839.
Born. ..... Musei Cæsarei Vindobonensis Testacea, 1780.
Ch. ..... Martini and Chemnitz, Neues Syst. Conchylien Cabinet, I-XI, 1769-95.
Conch. Ill..... Sowerby, Conchological Illustrations, I-II, 1832-37.
Da Costa..... British Conchology, 1778.
Desh. ..... Deshayes' edition of Lamarck's Animaux sans Vertébres, VI-XI, 1835-45.
Fav. ...... Favanne, Conchyiologie, 1780.
Geve. ...... Museum Geversianum, Testacea by F. C. Meuschen.

- Gm. .....Gmelin's edition of the Systema Naturæ of Linnaeus, 1791-1792. When the name is followed by a number it is the serial number of the species in Gmelin's work, while the number in parentheses and a succeeding number refer to Bolten's serial number and the page of Bolten where it may be found.
- Gualt. .....Gualtieri, Index testarum, 1742.
- Kam. .....Kammerer, Conchylien in Cabinette Rudolstadt, 1785.
- Lam. .....Lamarck, Animaux sans Vertébres, first edition, vols. V-VII, 1818-22. His serial number is given, followed by Bolten's serial number and page.
- L. .....Linnaeus.
- L. F. S......Fauna Suecica, 1761.
- L. Mus. Ulr.... Museum Ludovicæ Ulricæ, 1764.
- L. Mant......Mantissa altera plantarum, Vermes, 1771.
- L. S. N.....Systema Naturæ, 1758; see Gmelin.
- List. .....Lister, Historia sive Synopsis methodica Conchyliorum, 1685.
- Martyn ......T. Martyn, Universal Conchologist, 1784-86.
- Mke. .....Menke's works, as cited.
- Reg. .....Regenfuss, Auserlesene Schnecken-Muscheln, 1758.
- Rumph. .....Rumphius, Amboinische Rariteit-Kammer, 1704.
- Schroet. .....Schroeter, Einleitung in die Conchylien Kenntniss, I-III, 1728-86.
- Val. .....Valentyn, Abhandlung von Schnecken, 1773.

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## TO THE BENEVOLENT READER

## (Translation of Latin preface of 1798)

Beside innumerable other treasures of natural history which Boltenius, Doctor of Medicine and Poliator Primarius, a man of very wide experience and learning—deserving lasting honor especially from men of letters and from the state, especially that of Hamburg—had collected during 40 years, he left an immense collection of shells—for the most part very rare, beautiful and in excellent preservation.

Intending to publish, his heir directed me to supply a brief Latin preface to the systematic catalogue of this collection which had been prepared with the greatest accuracy and care by its late possessor; and revised and enlarged by the addition of synonymy by Peter Friedrich Roeding, a man devoted to natural history and especially to conchology.

Because of many favors received at the hands of the honored family of Boltenius, I did not wish to decline this request although I cannot make any claim to be a conchologist.

At first sight, perhaps those who are both judges and friends of conchology will be disturbed at the great number of new and unheard of names, especially generic names, met in the catalogue.

They must, therefore, be informed from what source arose this unique nomenclature destitute of current authority.

The celebrated Boltenius had indeed worked out a new and peculiar natural system of conchology quite different from all other systems of previous writers, and this system thus carefully worked out he had brought into real scientific form, prepared and constructed according to the special rules of conchological knowledge, so that, once this method of his of studying the history of shells was published, he bid fair to become an authority on this subject like a dictator or a second Linnaeus.

There were together with the specimens several sheets of outlines drawn under the personal direction of the late Boltenius by an experienced and learned Dominican, Doctor Schultze, a keen investigator of nature and truth. But the complete work was

interrupted, alas! by the sad death of Schultze, after which the cares and infirmities of old age prevented Boltenius from finishing it himself and making known to the learned world an ingenious method of conchology, worked out with wonderful keenness of perception. The solid foundation of this method rested upon the simple and excellent idea that nature, to form the varied shells of testacea had started with a simple and flattish covering and then had gradually developed more spirality in other forms becoming by degrees more elegant and more intricate—of the univalve, bivalve and multivalve shells—an ingenious plan, worthy alike of the author of nature and of the author of the system.

Would that the late Boltenius had left some sketch of the natural orders and genera under which shells would find a place in accordance with this principle of classification, and which we could insert in our preface, to the great assistance of those who are competent to read the following catalogue with understanding! Now, alas! there remain only new genera of testacea, most of them established according to a deep and genuine science of conchology; nothing but the scattered parts, as it were, of a system. Here the reader might easily be puzzled regarding shells in the collection, merely on account of the variety of forms and colors, especially when with no synonymy to help he seeks to determine species, yet nevertheless a learned and really systematic judge will profit much in comparing the genera of Boltenius with the classifications of Linnaeus and other authors.

Nothing further surely is to be desired unless it be that this collection of shells should not be scattered by auction but should come intact into the hands of someone who might be both able and willing to utilize the incredible toil, which our Boltenius endured in preparing and equipping this immense museum of conchology, to the honor of a great mind and the enrichment of natural history.

Other facts necessary for the reader and lover of shells to know will be made plain in the following preface in the vernacular.

M. AUT. AUG. HENR. LICHTENSTEIN.

HAMBURG, SEPTEMBER 10, 1798.

## INTRODUCTION

## (Original edition of 1798, pp. vii-viii)

The conchological collection of the late Physician and Natural Philosopher, J. F. Bolten, is certainly in many ways very valuable, and is remarkable in its possession of exceedingly rare specimens, among which is a large supply from the newly discovered southlands. The late Dr. Bolten attempted to render his collection as complete as possible, and obtained through his great number of foreign acquaintances, by exchange, and great expense, a collection which needs no praise. The connoisseur will be able by this short description to form an idea of its value, but a greater knowledge of its value is gained by an actual examination of the collection, since great stress has been placed upon color as well as upon perfection of the individual specimens.

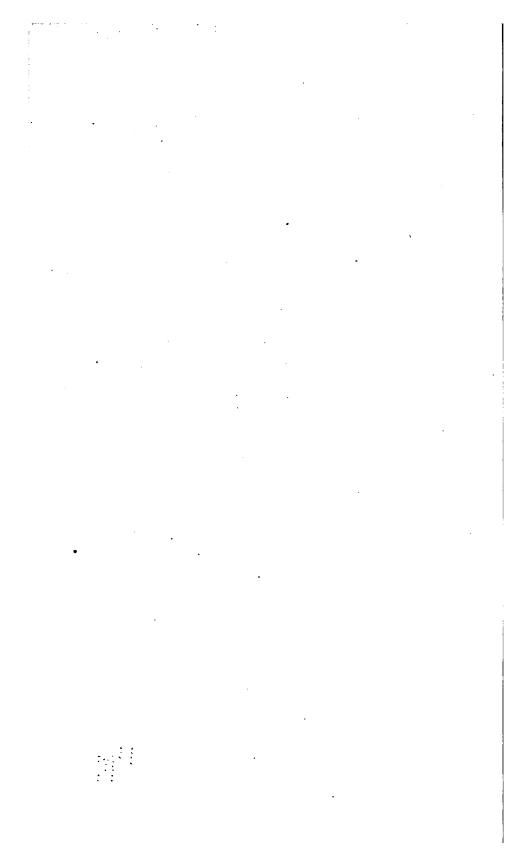
The great diversity of the collection caused the owner to select his own system of classification, and he bestowed upon his specimens, as the list will show, Latin and German names, but, although these were fortunately and well chosen, many of them would nevertheless remain entirely unknown to foreigners. On account of my love for natural history I accepted the labor and have added the Latin names according to the 13th edition of Gmelin's Linnaean System, as well as many references to figures of the specimens. In many instances this had to be left undone because no figures were to be found or these were unsatisfactory. Of univalves there are almost 7,000, and of the two and many shelled organisms, about 1,300. On account of so large a mass of material I hope to be forgiven because in occasional instances the references were not put forth as they really should have been.

It would be a pity if so rich and select a collection should meet the fate of many a collection, namely, to be sold piecemeal. The family, therefore, wishes very much to secure a single purchaser to whom they would sell the collection for a reasonable consideration, and it asks that any such purchaser make himself known without delay.

It remains to be mentioned that the shells have been uniformly subjected to a thorough cleaning by skilled hands.

PETER FRIEDRICH ROEDING.

IN THE MONTH OF SEPTEMBER, 1798.



## INTRODUCTION

## (Second edition, Hamburg, January, 1819)

To friends of knowledge, the name of Dr. Bolten will remain a lasting memorial. With the mention of this name there will come to his friends the memory of pleasures which an ever ready display of his splendid art and nature treasures gave them, which the owner through his wide knowledge and acquaintance and devotion had the good fortune to bring together, through 40 years of collecting. To those who did not personally know the venerable deceased, it will be pleasant to see this splendid collection, and to come into possession of these valuable and rare objects which are now offered to them for sale.

I am only able to repeat the well known and deserved praise which has been bestowed upon this collection, which undoubtedly —in so far as the conchological portion is concerned—has to be counted among the first collections as far as the beauty and rarity of the specimens contained in it are concerned. What the amateur may find, the following catalogue tells, which was prepared as long ago as 1798, and by Mr. P. F. Roeding, with the greatest of care, after Gmelin's 13th edition of the Linnaean System, was provided with as many careful additions of references as possible, from the best authorities. Since the collection contains many rare, little known or even undescribed forms, I have in the present edition of the catalogue, which is comparatively free from printers' errors, made a new comparison with the collection, and have added a few lithographed drawings which I recommend to the kind consideration of amateurs.

The late Mag. and Abbe A. A. H. Lichtenstein had the kindness to add to the first catalogue a Latin introduction, to omit which would be a fault since it honors the memory of two worthy men.

An asterisk placed before the numbers in the catalogue will permit the reader to find more readily the very fine or remarkable specimens. The value of the precious examples of the collection is enhanced by their excellent preservation. The foreigner order-

ing material may be assured that no defective, worthless, or, in the case of the bivalves, unmatched pieces, will reach him. Where an imperfection was found I have taken pains to note it.

I will attend kind orders which may be transmitted to me in prepaid letters, by foreign collectors, with careful exactitude and conscientiousness; and I dare assure the purchaser that the exact specimens ordered will reach him and not a substitute for them; and I ask that a careful statement of catalogue and page numbers and the double number be transmitted to me with the orders, so that no mistakes may occur.

The sale will be made for cash in the local currency upon delivery. Foreigners may transmit their orders in the currency of their country, which I will carefully exchange into our local money.

In again most highly recommending this splendid collection, the dismemberment of which is very much to be lamented, I again offer to furnish additional information either by personal interview or by correspondence if such should be desired.

JOHANNES NOODT.

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Buccinum arcularia Gm. 42; (1677)	L. Mus. Ulr.
133.	Buccinum dorsatum (1431) 111.
Buccinum areola Gm. 17; (369) 30.	Buccinum dubium (1436) 112.†
Buccinum areola Gm. 17; (374) 31.	Buccinum echinophorum Gm. 9.;
Buccinum australe Gm. 173; (1395)	(361) 30.
108.	Buccinum elongatum (1428) 111.†
Buccinum bellangeri Kien. (1242)	Buccinum erinaceum (379, 381-384)
96.	32. (Gm. 34.)
Buccinum bezoar Gm. 91; (726) 58.	Buccinum excavatum (1456) 113.
Buccinum blainvillii Desh. (1466)	(= 1429.)*
I I4.	Buccinum faba (1447) 112.†
Buccinum britanicum (1454) 113.	Buccinum fenestratum (1451) 113.†
(= 1429.)	Buccinum filosum Gm. 67; (1645 <sup>2</sup> )
Buccinum camelinum (1467) 114.†	131.
Buccinum canaliculatum Kien. (1431)	Buccinum flammeum Gm. 14; (352)
111.	29.

Buccinum flammigerum (1449) 112.† Buccinum nitidulum Gm. ? 128; Buccinum fumosum Sol. (1647<sup>a</sup>) (1431) 111. Buccinum nivea Gm. 112.; (1503) 131. Buccinum gibbum Gm. 27; (371, 116. Buccinum nodosum Martyn (707) 372) 31. Buccinum giratum (1481) 114. 56. Buccinum glabratum Gm. 81; (1476) Buccinum obtusum (1474) 114. Buccinum ocellatum Gm. 73; (1654<sup>2</sup>) 114. Buccinum glaciale Gm. 92; (1444) 131. Buccinum olearium Gm. (1884) 150. 112. Buccinum papillosum Gm. Buccinum glans Gm. 41; (1446) 112. 40; Buccinum glaucum Gm. 35; (364) (1464) 113. Buccinum patulum Gm. 51; (683) 30. Buccinum granulare (1440) 112.† 54. Buccinum pennatum Gm. 21; (359) Buccinum hæmastoma Gm. 52; (685) 54. 29. Buccinum perdix Gm. 3; (1880) 150. Buccinum harpa Gm. 47; (1872) 149. Buccinum persicum Gm. 49; (684) L. Mus. Ulr. 261. Buccinum hastatum Gm. 144; (1227) 54. Buccinum phallus Gm. 146; (1283) 05. Buccinum igneum Gm. 107; (1616) τοο. Buccinum plicatum Gm. 10; (355) 125. Buccinum impressum (1459) 113.† 29. Buccinum indicum Gm. 114; (1445) Buccinum plicatum Gm. 10; (378) 112 31. Buccinum inflatum (1461) 113.† Buccinum plumatum Gm. 108; Buccinum islandicum (1455) 112. (1617) 125. Buccinum politum (1435) 112.† Buccinum læve Gm. 72; (1642<sup>2</sup>) 131. Buccinum lævigatum Gm. 129; Buccinum pomum Gm. 4; (368) 30. Buccinum pomum Gm. 4; (1894) (1471) 114. Buccinum lævissimum Lam. (1471) 150. Buccinum porcatum (1429, 1430) II4. Buccinum lamboides (1470) 114.† III.\* Buccinum porcatum Gm. 105; (1452) Buccinum lamellosum (1462) 113.† Buccinum lapillus Gm. 53; (1661) 113. Buccinum porphyroides (1473) 114.† 132. Buccinum prismaticum Martyn 2; Buccinum lineatum (1446) 112. Buccinum maculatum Gm. 130; (1542) 119. Buccinum pullus Gm. 43; (348) 28. (1204) 93. Buccinum punctulatum (1465) 113.† Buccinum maculatum Gm. 130 y; Buccinum pyrozonias Gm. 71; (1672) (1214) 94. Buccinum maculatum Martyn 49; 133. Buccinum quadridenticulatum (1448) 112. Buccinum maculosum (1482) 115. (1434) 112. Buccinum malum Gm. 17  $\beta$ ; (370) Buccinum reticulatum Lam. (1429) 31. TTT. Buccinum miga Lam. 29; (1681) 134. Buccinum rude (1483) 115. = 1480. Buccinum monodon Gm. 50; (693) Buccinum rufescens (1460) 113. 1452. 55.

Buccinum rufum Gm. 12; (349) 28. Buccinum rusticum Gm. 65; (1644 <sup>3</sup> )	Buccinum undosum Gm. 84; (1646°) 131. + 1665. Buccinum undosum Kien. (1445)
131. Buccinum scala Gm. 61; (1637 <sup>3</sup> ) 130.	II2.
Buccinum scalare (1455) 113. (= 1429.)*	Buccinum undosum L. (723) 57. Buccinum variabile Phil. Moll. Sic.
Buccinum senticosum (1468) 114.	p. 221; (1681) 134. Buccinum versicolor Gm. 87;
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1483) 114.	Buccinum vibex Gm. 36; (382) 32.
Buccinum striatum (1441) 112.†	Buccinum vittatum Gm. 134; (1208)
Buccinum strigatum Gm. 179; (377)	94.
31.	Buccinum vittatum Gm. 184; (1240,
Buccinum strigillatum Gm. 145;	1242) 96. Buccinum vulgatum Gm. (1429) 111.
(1224, 1225) 95. Buccinum subulatum Gm. 131 γ;	Bulimus bovinus Desh. (1354) 106.
(1216) 94.	Bulimus caribaeorum Lam. (1371)
Buccinum succinctum Gm. 142;	107.
(1222).	Bulimus citrinus Lam. var. (1383,
Buccinum tessellatum Gm. 20; (358)	1385) 108.
29.	Bulimus decollatus Lam. (1172) 90.
Buccinum testiculum Gm. 15; (356)	Bulimus flammeus Gray (1394) 108.
29. Buccinum testudineum var. Kien.	Bulimus flammeus Gray (1418) 110. Bulimus glaber Desh. (1355) 106.
(1448) 112.	Bulimus haemastomus Lam. (1065)
Buccinum textum Gm. 102; (1466)	IOG.
114.	Bulimus interruptus Lam. (1391)
Buccinum thersites Gm. 43; (347)	108.
28.	Bulimus inversus Lam. (1394, 1387)
Buccinum tigrinum Gm. 140; (1205)	107, 108.
94.	Bulimus kambeul Lam. (1394) 108.
Buccinum tranquebaricum Gm. 86;	Bulimus kambeul Lam. (1418) 110.
(1664) 132. Buccinum tuberculatum (1484) 115.†	Bulimus labiosus Desh. (1356) 106. Bulimus lævus Desh. (1390) 108.
Buccinum tuberosum Gm. 13; (343)	Bulimus pudicus Desh. (1300) 106.
28.	Bulimus radiatus Lam. (1377) 107.
Buccinum tuberosum Gm. 13; (351)	Bulimus shongi Lesson (1354) 106.
29.	Bulimus sporadicus Orb. (1371) 107.
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	Bulla ampulla Gm. 10 $\beta$ ; (178) 15.
Buccinum tyrrhenum Gm. 180;	Bulla ampulla Gm. 10; (181) 15.
(360) 30. Buccinum umbilicatum Gm. 59;	Bulla ampulla striata (182) 15. Bulla aperta Gm. 8; (173) 15.
(724) 57.	Bulla birostris Gm. 3; (258) 22.
Buccinum undatum Gm. 93; (1423)	Bulla cingulata (180) 15.
III.	Bulla cylindrica Gm. 38; (176) 15.
Buccinum undatum juv. (? Pfr.)	Bulla cypræa Gm. 23; (1922, 1925)
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Bulla fasciata Gm. 25; (1358) 106.	Busycon muricatum (1865) 149.
Bulla fasciata Lam. (180, 183) 15.	Busycon perversum (1866) 149.
Bulla ferruginosa Gm. 35; (261) 22.	
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Bulla flammea (185) 16. (Gm. 10	Cabestana cymatium (1630²) 130.
pars.)	Cabestana difformis (1640 <sup>2</sup> ) 130.
Bulla gibbosa Gm. 6.; (253) 21.	Cabestana doliata (1633²) 130. (=
Bulla hydatis Gm. 9; (175) 15.	1630.)
Bulla lignaria Gm. 11; (177) 15.	Cabestana doliolum (1636 <sup>2</sup> ) 130.
Bulla naucum Gm. 7; (174) 15.	(= 1630.)
Bulla ovata Gm. 34; (265) 22.	Cabestana helciarum (1637²) 130.
Bulla ovum (L.) Gm. 1; (255) 21.	Cadus albus (1890) 151.†
Bulla ovum-vanelli (181) 15.	Cadus cassis (1885) 150.
Bulla physis Gm. 12; (179) 15.	Cadus cepa (1884) 150.
Bulla rapa Gm. 15; (1854) 148.	Cadus coturnix (1883) 150. (=
Bulla rubra (184) 15. (Gm. 10	1880.)*
pars.)	Cadus diaphanus (1891) 151.†
Bulla solida Lam. (176) 15.	Cadus doliolum (1889) 151.†
Bulla stercus-pullum Gm. 45; (1422)	Cadus dolium (1888) 150. (+1885.)
III.	Cadus fasciatus (1892) 151.
Bulla striata Lam. 3; (178) 15	Cadus galea (1886) 150.†
Bulla terebellum Gm. 22; (1690) 135.	Cadus globosus (1887) 150.†
Bulla umbilicata Gm. 10 $\beta$ ; (178) 15.	Cadus meleagris (1882) 150.
Bulla velum Gm. 36; (180) 15.	(=1880.*)
Bulla velutina Mull. (170) 14.	Cadus perdix (1880) 150.
Bulla vertucosa Gm. 5; (260) 22.	Cadus pomum (1894) 151.
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Bulla voluta Gm. 40; (1411) 110.	Calyptræa equestris Lam. (33) 4.
Bulla volva Gm. 2; (259) 22.	Calyptræa extinctorium Lam. (39) 4.
Bulla zebra Gm. 31; (1369) 107.	Calyptræa lævigata Lam. (42) 5.
Bulla zebra Gm. 31 8; (1418, 1419)	Calyptræa lineata Gray (42) 5.
	Calyptræa tectum-sinense Lam. (41)
Bullæa aperta Lam. (173) 15.	4.
Bullæa capensis Pfr. (173) 15.	Calyptræa undulata (34) 4.
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Busycon dubium (1868) 149.	Cantharus erosus (1668) 133.
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Cantharus nodosus (1667) 132.†	Cardium marmoreum Lam. (303)
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Cantharus triplicatus (1672) 133.	Cardium monstrosum Gm. 29; (386)
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Capulus hungaricus Lam. (26) 3.	413) 191. L. Mus. Ulr.
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	Cardium rugosum Lam. 23; (393)
Cardium arca (398) 190.† Cardium aurantiacum (394) 190.†	190.
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Cardium ciliatum Gm. 10; (405) 191.	(404) 191. L. Mus. Ulr.
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Cardium flavum Gm. 17; (409) 191.	Carocolla marginata Lam. 11;
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Cardium fragum Gm. 13; (389) 189.	Cassidaria echinophora (361) 30.
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Cardium hemicardium Gm. 5; (388)	Cassis alea (374) 31.
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Cardium inversum Lam. (387) 189.	Cassis areola (369, 374) 30.
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Cardium junoniæ Lam. 47; (385)	Cassis cancellata (365) 30.
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Cardium lævigatum Gm. 18 (395)	Cassis caput-bovis (342) 28.†
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Cassis cornutum (344) 28. Cassis crumena Lam. (355) 29. Cassis decussata Lam. (375, 376) 31. Cassis denticulata (379) 32. Cassis echinophora (361) 30. Cassis erinacea Lam. (379, 384) 32. Cassis erinaceus (384) 32. 48. Cassis fasciata Lam. (358) 29. Cassis flammea (352) 29. Cassis flammeolum (376) 31.\* 97. Cassis flammifera (377) 31. Cassis glabra Gm. 34  $\beta$ ; (381) 32. List. 1013-77. Cassis glans (373) 31. Cassis glauca (364) 30. Cassis globulus (371) 31. Cassis granulosa Lam. (369, 371) 30. 97. Cassis granulosa Lam. (371) 31. Cassis guttata (366) 30.† Cassis hamata (341) 28. Cassis malum (370) 31. Lister, 1056, f. 9. Cassis marmorata (351) 29. 97. Cassis mitella-polonica (357).\* Cassis pennata (359) 29. o8. Cassis pileolus (356) 29. Cassis plicaria Lam. (378) 31. Cassis plicatum (355) 29. Cassis pomum (368) 30. Cassis pullus (347) 28. 97. Cassis rufa Lam. (349, 350) 28.\* Cassis rufescens (349, 350) 29.\* Cassis rufum (349) 28. Cassis rugosa (378) 31. Cassis sulcosa Lam. (369) 30. 97. Cassis testiculus Lam. (356) 29.\* Cassis tuberosa (343) 28. Cassis tuberosa Lam. (351) 29. Cassis tuberculosa (354) 29. Fav. 00. 26, 11. Cassis tyrrhenum (360) 30. Cassis vibex (382) 32. Cassis zebra Lam. 10 (377) 31. Cerion apiarum (1167) 90.\* (=1165.) Cerion bidens (1170) 90. Cerion botrys (1169) 90. List. 585, 43.

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Chama damæcornis Lam. (449) 145.	Chlamys erminea (90) 162.†
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Chama fossilis (454) 196.†	Chlamys gibba (80) 162.
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Chiton striatus (460) 196.†	Chlamys superba (84) 162. <sup>†</sup>
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Chiton viridis (462) 196.	
Chlamys amaranthina (89) 162.	Chlamys testudinaria (78) 162.†
Chlamys aurantiaca (106) 164.	Chlamys tranquebarica (73) 161.
Chlamys brunnea (79) 162. Knorr.	Chlamys varia (109) 164.
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Chlamys cardinalis (105) 164.	Cidaris cælata (1095) 84.
Chlamys castrensis (98) 163.†	Cidaris cookii (1087, 1106) 84.
Chlamys cinnabarina (65) 161.	Cidaris flammea (1107) 85.
Chlamys citrina (86) 162.†	Cidaris granulata (1110) 86.
Chlamys cornea (100) 163. 71.*	Cidaris lineata (1109) 85.7
Chlamys crocea (87) 162. Gm. 78.	Cidaris magus (1098) 85.

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Cidaris novae-zeelandiae (1106) 85. Colus achatinus (1507) 117. (= (= 1087.)1506 ?) Cidaris pagodus (1088) 84. Colus albeola (1513) 117.† Cidaris plicata (1096) 84. 1094 var. Colus albula (1512) 117.+ Cidaris punctulata (1108) 85. Colus cæsia (1514) 117. Lister, 914, Cidaris purpuracea (1112) 86. Geve. 6. Colus ficoides (1517) 117. Lister, xix, 190, 1a, b. Cidaris rugosa (1094) 84. 1028, 3A. Colus islandicus (1511) 117. . Cidaris sinica (1111) 86.<sup>†</sup> Cidaris spinula (1091) 84. Colus marmoratus (1510) 117. (= Cidaris taitensis (1093) 84.† 1506 ?) Cidaris tectum-persicum (1089) 84. Colus tulipa (1506) 117. Lister, 910, Cidaris tuberculata (1102) 85. . I. Conus, see Cucullus, 37. Cidaris wahlii (1097) 84. (= 1094 var.) Conus achatinus Lam. (615) 48. Circe, see Gafrarium, 176. Conus achatinus Gm. 25; (616) 48. Circe pectinata Schum. (245) 177. Conus achatinus Lam. (622) 49. Circe scripta Schum. (260) 178. Gm. 25. Clausilia bidens Lam. (1170) 90. Conus acuminatus b, Lam. (567) 45. Cochlis ala-papilionis (1834) 146. Conus affinis Gm. 50; (644) 50. Cochlis albula Gm. 8.  $\beta$ ; (1829) 146. Conus amadis Gm. 32; (566) 45. Cochlis canrena Gm. 10; (1832) 146. Conus amiralis-coronatus Gm. 10; Cochlis clausa (1835) 146.† (485, 488) 39 Knorr. V, 25, 3. Cochlis cornea (1831) 146. Conus ammiralis Lam. 69 c; (486) Cochlis explanata (1830) 146. 39. Cochlis fanel (1837) 147. Conus ammiralis Gm. 10.; (571, 579) Cochlis flammea (1836) 146. 45. Cochlis lineata (1846) 147. Conus ammiralis-americanus Gm. Cochlis milliporia (1842) 147. 10.; (551) 44. Cochlis onca (1844) 147. Conus ammiralis-americanus Gm. Cochlis pavimentum (1845) 147. 10 β; (567) 45. (= 1844.)\*Conus ammiralis-summus Gm. 11; Cochlis plicata (1847) 147. (572, 574) 45. Cochlis rufescens (1850) 148. Conus arachnoideus Gm. 34; (480) Cochlis stercus-muscarum (1838) 39. (= 1837 ?) Chemn. V, p. 147. Conus araneosus Lam. (480) 39. 187, text, not fig. Conus arenosus (494) 40. Cochlis sulcata (1848) 147. Conus arenatus Lam. (494) 40. Cochlis tigrina (1843) 147. Conus arenatus Lam. 18 b; (495) 40. Cochlis undulata (1841) 147. Conus augur Lam. 93; (556) 44. Cochlis vitellus (1849) 148. Conus augur Lam. 93; (623) 49. Cochlis ziczac (1839) 147. Conus aulicus Gm. 60; (630) 49. Codakia, see Cytherea, 178. Conus aulicus Gm. 60; (634, 638-9) Columbella, see Pyrene, 134. Columbella mercatoria Lam. (654) 49. Conus aurisiacus Gm. 56; (531) 42. 51. Columbella semipuncta Lam. (1689) Conus betulinus Lam. (504, 510, 512-134. 546) 40.

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51.Conus buxeus Gm. 21; (530) 42.Conus capitaneus Gm. 6; (537) 43.Conus capitaneus Gm. 6; (537) 43.Conus capitaneus Gm. 6; (537) 43.Conus marmoreus Lam. 1 d; (47, 470) 38.Conus cedonulli Lam. 11 h; (487) 30.Conus marmoreus Lam. 1 d; (47, 470) 38.Conus cedonulli Lam. 11 h; (487) 30.Conus marmoreus Lam. 1 d; (47, 470) 38.Conus cedonulli Lam. 11 h; (487) 30.Conus mediterraneus var. γ (588) 46.Conus coronatus Gm. 31; (606) 48.Conus medusa Gm. 20 β; (505) 40.Conus datcus Lam. (531) 42.Conus medusa Gm. 20 β; (505) 40.Conus distans Lam. (569) 45.Conus fuglinus Gm. 21; (526) 42.Conus fuglinus Gm. 21; (526) 42.Conus millepunctatus Lam. (506) 48.Conus genuanus Gm. 14; (521) 42.Conus monile Lam. (566) 44.Conus genuanus Gm. 14; (551, 562) 40.Conus moliles Lam. (566) 44.Conus genuanus Gm. 14; (551, 562) 40.Conus nebulosus Lam. 13 c; (466) 38.Conus granulatus Gm. 52; (496) 40.Conus nebulosus Gm. 29 β; (620) 48.Conus informis Lam. (595) 47.Conus incobaricus Lam. (479) 38.Conus informis Lam. (595) 47.Conus incobaricus Lam. (479) 38.Conus informis Lam. (595) 47.Conus incobaricus Lam. (549) 43.Conus leoninus Gm. 27 β; (580) 44.Conus parlionaceus Lam. (56) 45.Conus leoninus Gm. 27 β; (580) 44.Conus pratatus Lam. (563) 45.Conus leoninus Gm. 27 β; (580) 44.Conus pratatus Lam. (569) 45.Conus leoninus Gm. 27 β; (580) 44.Conus pratatus Lam. (569) 45.Conus leoninus Gm. 27 β; (586) 46.Conus pratatus Lam. (565)	Conus bullatus Gm. 63; (648, 649)	Conus magus Lam. (616) 48.
Conus capitaneus Gm. 6; (534) 43. Conus capitaneus Gm. 6; (537) 43. Conus capitaneus Lam. 1 $h$ ; (483) 39. Conus capitaneus Lam. 1 $h$ ; (483) 39. Conus capitaneus Lam. 1 $h$ ; (487) 39. Conus coronatus Gm. 31; (648) 48. Conus daucus Lam. (550) 44. Conus fugurans Lam. (569) 45. Conus fulgurans Lam. (569) 48. Conus fulgurans Lam. (569) 48. Conus fulgurans Lam. (566) 48. Conus generalis Gm. 4 $\beta$ ; (557, 560, 562, 561-4) 44. Conus genuanus Gm. 14; (551, 562) 44. Conus genuanus Gm. 14; (551, 562) 44. Conus granulatus Gm. 52; (496) 40. Conus nifermis Lam. (596) 47. Conus informis Lam. (595) 47. Conus informis Lam. (595) 47. Conus lactus (596) 47. Knorr. 1II, 6, 5. Conus leoninus Gm. 27 $\beta$ ; (547, 548) Conus litteratus Lam. (559) 47. Conus litteratus Lam. (559) 47. Conus litteratus Lam. (558) 44. Conus litteratus Lam. (558) 44. Conus litteratus Lam. (559) 47. Conus litteratus Lam. (558) 44. Conus litteratus Lam. (558) 44. Conus litteratus Lam. (556) 45. Conus pretecus Lam. (561) 49. Conus prilearius Lam. 19; (497) 40. Conus pulcarius Lam. 19; (497) 40	51.	Conus marmoreus Gm. 1. (467,
Conus capitaneus Gm. 6; $(537)$ 43. Conus cedonulli Lam. 11 h; (483 bis) 39. Conus cedonulli Lam. 11 h; (487) 39. Conus coronatus Gm. 39; (478) 38. Conus mediterraneus var. $\gamma$ (588) 46. Phil. p. 238. Conus mediterraneus ? var. $\gamma$ (615) 48. Conus mediter aneus ? var. $\gamma$ (615) 48. Conus mediter aneus ? var. $\gamma$ (615) 48. Conus medusa Gm. 20 $\beta$ ; (550) 40. Conus medusa Gm. 20 $\beta$ ; (560) 43. Conus millepunctatus Lam. (519, 520) 41. Conus fugurans Lam. (660) 48. Conus generalis Gm. 21; (520) 42. Conus generalis Gm. 4 $\beta$ ; (557, 560. Conus generalis Gm. 4 $\beta$ ; (557, 560. Conus genuanus Gm. 14; (521) 42. Conus genuanus Gm. 14; (521) 42. Conus granulatus Gm. 52; (466) 50. Conus granulatus Gm. 52; (466) 50. Conus informis Lam. (505) 47. Conus informis Lam. (505) 47. Conus informis Lam. (595) 47. Conus informis Lam. (595) 47. Conus leoninus Gm. 27 $\beta$ ; (580) 44. Conus leoninus Gm. 27 $\beta$ ; (586) 46. Conus papilionaceus Lam. (569) 45. Conus papilionaceus Lam. (569) 45. Conus prateus Lam. (561) 49. Conus pretectus Lam. (565) 45. Conus pretectus Lam. (561) 49. Conus pretectus Lam. (561) 49. Conus pretectus Lam. (561) 49. Conus pretectus Lam. (561) 49. Conus pretectus Lam. (565) 45. Conus pretectus Lam. (561) 49. Conus princeps Gm. 9; (525, 573) 42. Conus princeps Gm. 9; (525, 573) 43. Conus princeps Gm. 9; (557, 541. Conus princeps Gm. 9;	Conus buxeus Gm. 21; (530) 42.	470) 38.
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bis) 39. Conus cinereus Lam. $(1b; (487)$ 39. Conus cinereus Lam. $(1b; (487)$ 39. Conus coffea Gm. 31; (660) 48. Conus coronatus Gm. 39; (478) 38. Conus ducus Lam. $(531)$ 42. Conus ducus Lam. $(531)$ 42. Conus fulgurans Lam. $(569)$ 45. Conus fulgurans Lam. $(569)$ 48. Conus fulgurans Lam. $(569)$ 45. Conus fulgurans Lam. $(560)$ 48. Conus fungatus Lam. $(560)$ 48. Conus generalis Gm. 4 $\beta$ ; $(557, 560, 562, 567-4)$ 44. Conus genuanus Gm. 14; $(521)$ 42. Conus genuanus Gm. 14; $(551)$ 42. Conus genuanus Gm. 14; $(521)$ 42. Conus genuanus Gm. 14; $(551)$ 42. Conus genuanus Gm. 55; $(646)$ 50. Conus gengraphus Gm. 65; $(646)$ 50. Conus nebulosus Lam. $(560)$ 44. Conus nebulosus Lam. $(560)$ 45. Conus occidentalis Gm. 10 $c_i$ (571) 45. Conus leoninus Gm. 27 $\beta$ ; $(580)$ 44. Conus papilionaceus Lam. $(569)$ 45. Conus papilionaceus Lam. $(560)$ 45. Conus papilionaceus Lam. $(560)$ 45. Conus papilionaceus Lam. $(561)$ 45. Conus princeps Gm. 9; $(525, 573)$ 42. Conus princeps Gm		
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Cucullus crenulatus (581) 46. Cucullus crucifer (617) 48. Cucullus cutis-anguina (619) 48.\* (=617.)Cucullus daucus (600) 47.† Cucullus dubitatus n (580) 46.† Cucullus dux (561) 44. Cucullus ebraeus (524) 42. Cucullus eburneus (565) 45. Cucullus equestris (474) 38.\* Cucullus equestris (578) 46. Fav. 17, fig. S. 2. Cucullus ferugineus (515) 41. Cucullus figulinus (526) 42. Cucullus filosus (559) 44. Fav. xv, f. C. Cucullus flammeus (550) 44. Cucullus folliculus (503) 40. Cucullus fraxineus Gm. 15; (506) 40. Cucullus generalis (562) 44. Cucullus genuinus (523) 42. Cucullus gentilis (639) 50. (cf. 634.) Cucullus geographicus (483) 39. Cucullus geographus (646) 50. Cucullus glaucus (507-8) 40. Cucullus glaucus (615) 48. Cucullus gloria-maris (633) 49. Cucullus granulatus (496) 40. Cucullus granulatus y (576) 45.† Cucullus granulosus (498) 40. Cucullus gualterianus (533) 42. Cucullus guttatus (621) 48.\* (≓ 620.) Cucullus imperialis (463) 37. Cucullus imperialis  $\delta$  \*; (575) 45.† Cucullus isabella (552) 44.† Cucullus jaspideus (610) 48. Cucullus lacteus (510) 41.\* (=506-8.) Cucullus laganum (648) 51. Cucullus lamboideus (502) 40.† Cucullus larvatus 8 (579) 46. Fav. 17, fig. S. 3. Cucullus leoninus Gm. 10 b; (551) 44. Cucullus leopardus Gm. 3; (520) 41. Cucullus lineatus (593) 47.\*

Cucullus litteratus (516) 41. Cucullus locum-tenens (564) 45. Cucullus maculosus (620) 48. Cucullus magus (623).49. Cucullus marmoreus (467) 38. Cucullus medusæ (546) 43. Cucullus meningeus (491) 39. Cucullus mercator (603) 47. Cucullus miles (536) 43. Cucullus millepunctatus (605) 47. Cucullus minutus (583) 46. Cucullus monachos (490) 39. Cucullus nobilis (629) 49. Cucullus novem-striatus (608) 48. Cucullus nubecula (584) 46. Cucullus nubilus (586) 46. Cucullus nussatella (641) 50. Cucullus orleanus (558) 44. Cucullus ornatus (560) 44. Cucullus papilio Gm. 14  $\beta$ ; (522) 42. Cucullus pardus (519) 41. Cucullus parvus (585) 46.\* Gm. 66. Cucullus pavimentum (509) 41. Cucullus pellucidus (587) 46.† Cucullus pernambucinus (492) 39. Cucullus petreus (485) 39. Cucullus politus (612) 48.† Cucullus princeps Gm. 10  $\beta$ ; (573) 45. Cucullus proarchithalassus (470) 38.\* Cucullus pulchellus (570) 45. Fav. 79, L. Cucullus pulverulentus (556) 44. Cucullus punctulatus (497) 40. Cucullus purpuratus (644) 50. Cucullus purpureus (602) 47. Cucullus quadratulus (512) 41. Cucullus quadratus (511) 41. Cucullus radula (500) 40.\* = 498. Cucullus regius (465) 38. Cucullus sabella (628) 49. 627 v. Cucullus St.-thomae (569) 45. Cucullus saphirus (614) 48.† Cucullus spectrum (591) 46. Cucullus sphinx (521) 42. Cucullus sponsa (601) 47.†

Cucullus spurius (482) 39 Knorr. VI. 1. 2. Cucullus stercus-muscarum (495) 40. Cucullus striatus (640) 50. Cucullus summus  $\alpha$ ; (572) 45. Cucullus syriacus (513) 41. Cucullus terebellum (642) 50. Cucullus textile (636) 50.\* Cucullus theobroma (549) 43. Cucullus tigris Gm. 20,  $\beta$ ; (505) 40. Cucullus tornatus (582) 46.† Cucullus tornatus (609) 48.7 Cucullus torquatus (475) 38.\* Cucullus torquatus  $\varepsilon$ ; (577) 45. Fav. 17, fig. S. 4. Cucullus trapezium (481) 39. Lister, 773-19. Cucullus tulipa (647) 51. Cucullus turritus (477) 38. Cucullus venustus (599) 47. (Diag.) Cucullus verrucosus (622) 49. Cucullus vicarius (567, 572) 45. Cucullus virgo (493) 39. Cucullus virgo Gm. 5; (532) 42. Cyclas Link, 1807, see Venus (2) 180. Cyclostoma flavula Lam. (1171) 90. Cyclostoma grande Sby. (917) 72. Cyclostoma ligata Lam. (919) 72. Cyclostoma lincina Desh. (1402) 109. Cyclostoma sulcata Drap. (1403) 100. Cyclostoma volvulus Lam. (917) 72. Cymatium canaliculatum (1625)3 129.\* (== 1620.) Cymatium caudatum (1626)\* 120. = 1620.\* Cymatium clavatum (1624)<sup>2</sup> 129.<sup>\*</sup> (= 1620.)Cymatium femorale (1617 bis) 129. Cymatium flexuosum (1627)<sup>2</sup> 129.<sup>\*</sup> (= 1620.)Cymatium maculatum (1623)<sup>2</sup> 129. Cymatium muricatum (1629)<sup>2</sup> 130.\* (= 1620.)Cymatium rhinoceros (1620)<sup>3</sup> 129. + 1624-29.

Cymbium achatinum (1922) 154. Cymbium æthiopicum (1895) 151. Cymbium aurisiacum (1925) 154. ‡ test. juv. Cypræa ? Cymbium carinatum (1917) 153.\* (= 1008.). Cymbium cisium Mkę (1912) 153. Cymbium citrinum (1901) 152. Cymbium cochlear-neptuni (1915) 153.\* (= 1915.)Cymbium cucumis (1914) 153.\* (== 1912.) Cymbium cylindraceum (1924) 154.† Cymbium flammeum (1899) 151. Cymbium guttatum (1909) 152.\* (= 1908.) Cymbium guttatum (1921) 153. Cymbium inflatum (1908, 1906-17) 152. Cymbium interreptum (1920) 153.<sup>†</sup> Cymbium jacobinum (1912, 1915) 153. Cymbium lagena-viatoria (1013) 153.† Cymbium lineatum (1918) 153. Cymbium lineata-punctatum (1919) 153.† Cymbium maculatum (1905) 152. Cymbium marmoratum (1902) 152.† Cymbium melo (1903) 152. (+ 1907.) Cymbium patera (1916) 153.\* (= 1908.) Cymbium persicum (1898) 151. Cymbium philipinum (1907) 152. Cymbium porphyreum (1923) 154. (t. juv.) Cymbium præputium (1910) 152.\* (= 1008.)Cymbium senticosum (1000) 151. Cymbium tranquebaricum (1911) 152. (= 1895 juv.)Cyphoma dorsata (254) 21.\* Cyphoma gibbosa (253) 21. Cypræa amathystea Gm. 10; (324) 26. Cypræa annulus (283) 23. L. Cypræa arabica L. (311) 26.

Cypræa argiolus (314) 26. Cypræa argus L. (315) 26. Cypræa asellus Gm. 56; (338) 27. Cypræa bullata (267) 22. Cypræa cæca (301) 25. Cypræa canaliculata (201) 24. Cypræa caput-serpentis L. (275) 23. Cypræa carneola L. 7; (318) 26. Cypræa carthaginensis (268) 22. Cypræa castanea Gm. 41; (274) 23. Cypræa caurica Gm. 83; (281, 282) 23.\* Cypræa caurica juv. (330, 335) 27. Cypræa cervina Lam. (305) 25. Cypræa cinerea Gm. 16; (267) 22. Cypræa cornus (332) 27. Cypræa crenata (281) 23. Cypræa crenulata (326) 27. Cypræa cribraria Gm. 80; (337) 27. Cypræa cruenta Gm. (281) 23. Cypræa cruenta Gm. (335) 27. Cypræa cruentata (292) 24. Cypræa draco (333) 27. Cypræa erosa Gm. 84; (336) 27. Cypræa exanthema Gm. 1; (305) 25. Cypræa fragilis Gm. 14; (291) 24. Cypræa fuliginosa (261, 264) 22.\* Cypræa glauca (316, 317) 26.\* Cypræa globulus Gm. 99; (303) 25. Cypræa guttata Gm. 15; (298, 299) 25. Cypræa helvola Gm. 90; (278) 23. Cypræa hirundo Lam. 39 c; (332) 27. Cypræa histrio (277) 23. Knorr. 16-1. Cypræa histrio Gm. 120; (276, 277) 23. Cypræa interrupta (328) 27.† Cypræa isabella Gm. 49; (322) 26. Cypræa ligata (279, 280) 23.\* Cypræa limbata (263) 22.† Cypræa leonina Gm. 95 var.; (287) 24. Cypræa lentigo (282) 23. Gm. 83.\* Cypræa lurida Gm. 11; (320) 26. Cypræa lynx juv. (292) 24. Cypræa lynx L. Gm. 48; (297) 24. Cypræa mappa L. (310) 26.

Cypræa stercoraria Gm. 6; (279,-Cypræa margarita Sol. (303) 25. Cypræa mauritiana juv. L. (265) 22. 280) 23.\* Cypræa mauritiana (270) 23. Cypræa stolida (330, 332, 334) 27. Cypræa tabescens Sol. (332) 27. Cypræa meleagris (305) 25. Cypræa talpa L. (319) 26. Cypræa moneta (284, 285) 23. L.\* Cypræa testudinaria L. (304) 25. Cypræa morbillosa (335) 27. Cypræa tigrina Lam. (295) 24. Cypræa•mus. L. juv. (261) 22. Cypræa tigris L. (294) 24. Cypræa mus. L. (268) 22. Gm. 43. Cypræa nivea (262) 22.† Cypræa tuberosa (269) 22.† Cypræa nucleus Gm. 95; (286) 24. Cypræa undata Lam. (302) 25. Cypræa undosa (324) 26. Cypræa numisma (285) 24.\* Cypræa variolaria Lam. (281) 23. Cypræa ocellata Gm. 91; (300) 25. Cypræa oculata (276) 23. Cypræa variolaria Lam. (335) 27. Cypræa variolosa (286) 24. Knorr. Cypræa oliva (331) 27.† IV, 17-7. Cypræa olivacea Gm. 46; (279) 23. Cypræa vitellus L. (298) 25. Cypræa onca (293) 24. Mart. 234. Cypræa zebra (316, 317) 26.\* Cypræa oniscus Gm. 93 var.; (288) Cypræa ziczac (302) 25. 24. Cypricardia guiniaca Lam. 1 (339) Cypræa onyx L. (266) 22. Ch. I. 185. 269. Cyprina islandica Lam. (284) 180. Cypræa ovum (261, 264) 22.\* • Cyprina, see Venus (2) 180. Cypræa ovumpasseris (339) 28. Cyrena fluminea Lam. (318) 183. Cypræa pantherina Sol. (295) 24. Cytherea albida (265) 178.\* (=Cypræa pardalis (296) 24. Gm. 44.\* 263.) Cypræa pardus (295) 24. Gm. 44. Cytherea biradiata (272) 179. Cypræa paschalis (265) 22. Cytherea brunnea (273) 179.† Cypræa pediculus (289) 24. Cytherea chione Lam. (277) 179. Cypræa petechialis (329) 27. Cytherea concentrica (257) 178. Cypræa plumbea Gm. 17; (316) 26. Cytherea corbicula Lam. (302) 182. Cypræa poraria Gm. 92.; (301) 25. Cytherea corrugata (262) 178. Cypræa pulex (200) 24.† Cytherea detrita (267) 178.† Cypræa pulla Gm. 61; (266) 22. Cytherea dione Lam. (303) 182. Cypræa prunus (266) 22. Cytherea excisa (266) 178. Cypræa purpurascens Swains. (329). Cytherea exoleta Lam. (263) 178. Cypræa pyrum Gm. 59; (323) 26. Cytherea gibbia Lam. 64; (244) 176. Cypræa quinquefasciata (334) 27. Cytherea gigantea Lam. (229) 175. Cypræa regina Gm. 117; (265) 22. Cytherea guinëensis Lam. (304) 182. Cypræa rubiginosa (327) 27.† Cytherea histrio Gray (264) 178. Cypræa rubiginosa Gm. 105; (333) Cytherea juvenilis Lam. (272) 179. 27. (=263?)Cypræa rufa Lam. (323) 26. Cytherea læta Lam. 26; (234) 176. sanguinolenta Gm. Cypræa 38; Cytherea lavacrum (255) 177. (329) 27. Cytherea lusoria Lam. (278) 180. Cypræa scurra Lam. (314) 26. Cytherea maculata Lam. (281) 180. Cypræa soricina (321) 26.† Cytherea nivea (256) 178. (=Cypræa squalina Gm. 101; (292) 24. 257.\*) Cypræa stellata (278) 23. Cytherea nebulosa (276) 179.†

Cytherea obsoleta (264) 178. Cytherea ornata Lam. (295) 181. Cytherea pacifica Pfr. (266) 178. Cytherea puerpera (268) 179. Cytherea ranella Lam. (244) 176. Cytherea rugifera Lam. (262) 178. Cytherea rugosa (269) 179. Cytherea scripta (260) 178. Cytherea senilis (270) 179.\* (=271.) Cytherea sulcatina Lam. (297) 181. Cytherea tigerina Lam. (257) 178. Cytherea tripla Lam. (301) 181. Cytherea verrucosa Lam. (271) 179. Cytherea violata (275) 179.† Cytherea ziczac (274) 179.† Delphinula laciniata Lam. 1; (909) 71. Delphinula distorta Lam. (010) 71. Delthyris spatula Mke. (420) 192.\* Dentalium aprinum (879) 68. Dentalium arcuatum Desh. (881) 69. Dentalium eburneum (880) 69. Dentalium elephantinum Lam. (879). Dentalium elephantinum Gm. 1; (881) 69. Dentalium entalis (883) 60. Dentalium fasciatum Gm. 10; (883) 69. Dentalium lupinum (882) 60. Dentalium rectum Gm. 12; (879) 68. Dentalium striatulum Gm. 13; (882). Distorsio anus (1673) 133. Distorsio arcularia (1677) 133. Distorsio clathrata (1675) 133. Distorsio communis (1681) 134. Distorsio dealbata (1679) 134. (= 1677. var.) Distorsio muricina (1676) 133. Distorsio plicata (1678) 134. (=1677 var.) Distorsio reticulata (1674) 133. Distorsio subulata (1680) 134. (= 1677 var.) Distortrix, see Distorsio, 133. Dolium, see Cadus, 150. Dolium costatum Mke. (1885) 150.

Dolium fasciatum Kien. (1885) 150. Dolium fasciatum Lam. (1892) 151. Dolium maculatum Lam. (1885, 1888) 150. Dolium olearium Lam. (1884) 150. Dolium perdix Lam. (1880) 150. Dolium pomum Lam. (368) 30. Dolium pomum Lam. (1894) 151. Donax cuneata Gm. 7; (323) 184. Donax denticulata Gm. 6; (326) 184. Donax meröe Lam. (232) 176. Donax ringens Lam. 16. (322) 183. Donax rugosa Gm. 3; (322) 183. L. Mus. Ulr. Donax scortum Gm. 1; (321) 183. Lam. Donax serra (322) 183. (= D.rugosa L.) Donax trunculus L. F. S. (325) 184. Lam. Donax violacea (327) 184.\* (=327.) Dosinia, see Cytherea, 178. Dosinia concentrica Gray (259) 178. Dosinia concentrica Gray var. (266) 178. Drupa aesculus (710) 56. Drupa botroides (702) 55. Fav. xxxiii, f. B. Drupa chamæmorus (701) 55. Drupa cornus (704) 56. Drupa fragum (699) 55. Drupa glans (707) 56. Drupa grossularia (700) 55.\* (=694.) Drupa mancinella (708) 56. Knorr. III, 29, 6. Drupa morum (694) 55. Drupa muricina (706) 56. Drupa rubus-cestus (695) 55. Drupa rubus-idæus (698) 55. Drupa trapa (709) 56. Drupa tribulus (695) 55. Drupa uva (703) 56. Eburna, see Buccinum, 114. Eburna areolata Lam. (1482) 115.

Eburna glabrata Lam. (1476), 114.

Eburna spirata Lam. (1480) 114. Eburna zeylanica Lam. (1481) 114. Ellobium australe (1354) 106. Ellobium barbadense (1353) 106. Ellobium ceramense (1348) 105.\* (= 1347.) Ellobium ceriona (1356) 106. Ellobium flammeum (1355) 106. Ellobium inflammatum (1352) 106. Ellobium labrosum (1350) 105. 94.† Ellobium midæ (1347) 105. Ellobium subtile (1351) 105.\* (== 1350.) Ellobium tumidum (1349) 105.\* (= 1347.) Ellobium virgineum (1357) 106. 03.\* Emarginula fissura Lam. (28) 3. Ephippium anomia (132) 166. Ephippium placenta (130) 166. Lister, 589-53. Ephippium polonicum (129) 166. Ephippium transparens (131) 166.\* (= 130.)94. Epitonium acutangulum (1185) 92. Epitonium acutissimum (1220) 95. 02) 02. Epitonium acutum (1198) 93.\* (= 1194.) Epitonium anile (1224) 95. xiv. E. Epitonium breve (1175) 91.† Epitonium brunneum (1197) 93.† Epitonium cancellatum (1225) 95.\* t. 1. f. 7. (= 1224.)Epitonium chalybeatum (1211) 94. 93. Epitonium clathrus (1180) or. Epitonium crenulatum (1219) 94. Epitonium dimidiatum (1215) 94. Epitonium dubium (1186) 92. Epitonium duplicatum (1184, 1194, 1108) 02. Epitonium eburneum (1201) 93.† Epitonium elongatum (1181) 91.† 118. Epitonium feldmanni (1216) 94. Epitonium fissum (1222) 95. 118. Epitonium guttacum (1214) 94. Epitonium imbricatum (1192) 93. Epitonium infinitum (1191) 92.\* Epitonium lacteum (1210) 94. Epitonium lineatum (1176) 91.† (Not Gm. 6.) Epitonium lineatum (1213) 94.† Ficula, see Ficus, 148.

Epitonium maculatum (1204) 03. Epitonium margaritaceum (1196) 93. (=1195 var.)Epitonium marmoreum (1199) 93.\* Epitonium medium (1177) 91.† Epitonium minutum (1183) 92. Epitonium minutum (1227) 95. Epitonium monoceros (1190) 92.\* Epitonium novae-zeelandize (1209) Epitonium principale (1178) 91. Epitonium pulchellum (1226) 95.† Epitonium pusillum (1203) 93.7 Epitonium rubiginosum (1206) 94.† Epitonium rugosum (1194, 1198) Epitonium scalare (1174) 91. Epitonium squamatum (1193) 93. Epitonium striatum (1207) 94. Epitonium subulatum (1216, 1217) Epitonium terebra (1187, 1188-90-Epitonium tigrinum (1205) 94. Epitonium tornatum (1189) 92. Arg. Epitonium tympanotonos (1188) 92.\* Epitonium valentini (1182) 91. Val. Epitonium variegatum (1195, 1196) Epitonium vitreum (1202) 93.† Epitonium vittatum (1179) 91. Epitonium vittatum (1208) 94. Fasciolaria, see Colus, 117. Fasciolaria, see Fusus, 118. Fasciolaria filamentosa Lam. (1524) Fasciolaria trapezium Lam. (1518) Fenestella cepa (427) 193. Fenestella electrica (429) 193. Fenestella ephippium (423) 193. Fenestella squamula (430) 193.

Ficus communis (1851) 148. Ficus picta (1853) 148.† Ficus variegatus (1852) 148. Fissurella caffra Gm. (3) 1. Fissurella cancellata (14) 2. Fissurella cingulata (17) 2. Fissurella græca Lam. (14) 2. Fissurella grisea (3) 1. Fissurella infundibulum (4) 1. Fissurella limbata (8) 1. Fissurella mitella (1) 1. Fissurella nimbosa Lam. (1) 1. Fissurella nodosa Lam. (13) 3. Fissurella picta Lam. (6) 1. Fissurella porphyrozonias (8) 1. Fissurella pustula Lam. (23) 3. Fissurella radiata (7) 1. Fissurella radians (7) 1. Fissurella rosea Lam. (9) 2. Fissurella rubeola (9) 2. Fissurella rudis (13) 2. Fissurella umbrosa (5) 1. Fragum flavum (389) 189.\* Fragum hemicardium (388) 189. Fragum medium (391) 189. Fragum unedo (390) 189. Fulgur, see Busycon, 149. Fusus, see Purpura, 141. Fusus æthiops (1553) 120. (=1548 var.) Fusus ananas (1536) 119. Fusus angulatus (1527) 118.\* (= 1525.) Fusus antiquus Lam. (1487, 1488) 115. Fusus articulatus Lam. (1616, 1617-18) 125. Fusus cancellatus Phil. (1500) 116. Fusus carnarius (1557) 121. Fusus cingulatus (1531, 1533-4) 119. Fusus colosseus Lam. ? (1560) 121. Fusus colus Lam. (1564) 121. Fusus contrarius Lam. (1489) 115. Fusus corona Lam. (1492) 116. Fusus coronatus Lam. (1548) 120. Fusus craticulatus (1540) 119. Fusus cydonium (1522) 118.† Fusus cynara (1521) 118.

Fusus deplanatus (1558) 121. (1548 var.) Fusus despectus Lam. (1485) 115. Fusus fasciatus (1528) 119. Fusus filamentosus (1524) 118. Fusus filatus (1538) 119.† Fusus fornicatus Gray (1486) 115. Fusus glaucus (1529) 119.† Fusus incrassatus Lam. (1563) 121. Fusus iris (1542) 119. Fusus islandicus Lam. (1511) 117. Fusus lamellosus ? Phil. (1806) 144. Fusus longissimus Lam. (1561) 121. (= 1566.)Fusus maroccanus (1559) 121. Fusus minutus (1530) 119. Fusus morio (1548) 120. Fusus nicobaricus Lam. (1569, 1570) 122. Fusus polyedros (1526) 118.\* (= 1525.) Fusus polygonus (1525, 1535) 118. Fusus pugilinus (1554) 120. Fusus pulcher (1541) 119.† Fusus purpuratus (1543) 120.† Fusus pyramis (1545) 120. (== 1544 var.) Fusus raphanus Lam. 20; (707) 56. Fusus scrupeus (1523 bis) 118.† Fusus simplex (1523) 118.† Fusus sinistralis Lam. (1559) 121. Fusus striatus (1537, 1575) 119. Fusus sulcatus Lam. (1537) 119. Fusus syracusanus Lam. (1528) 119. Fusus tapete-persicum (1535) 119. = 1525.\* Fusus ternatanus (1546) 120. Fusus trapezium (1518) 118. Fusus trompeta (1544) 120. Fusus tuba Kiener (1809) 144. Fusus tuberculatus Anton. (1537) 110. Fusus varicosus Kien. (1501) 116. Fusus verriculatus Lam. (1537, 1575) 119. Gadinia, see (96) 9. Gafrarium angulatum (245) 177.\*

(= 249.)

Gafrarium cardiodeum (247) 177.\* Haliotis parva (L.) Gm. 7; (159, 160) 13. (= 249.)Gafrarium costatum (248) 177.\* Haliotis picta (165) 14. Haliotis plicata Gm. 13; (155) 13. (= 247.)Gafrarium depressum (246) 177.\* Haliotis rubicunda Gm. 7; (160) (= 249.)14.\* Haliotis rudis (156) 13.† Gafrarium didymum (253) 177.† Gafrarium fimbriatum (243) 177. Haliotis rugosa (154) 13.† Gafrarium levigatum (254) 177.† Haliotis striata (L.) Gm. 3; (152) Gafrarium pectinatum (249) 177. 13. + 245 - 248.Haliotis tuberculata (L.) Gm. 2; Gafrarium reticulatum (251) 177. (151) 13. Haliotis tubifera Lam. (147) 13. Gafrarium tellina (250) 177.\* (= Haliotis varia Gm. 4; (163) 14. 251.) Haliotis virginea Gm. 16; (162) 14. Gafrarium tumidum (244) 176. Gafrarium venustum (252) 177.† Harpa amouretta (1877) 150. Harpa articularis Lam. 5; (1878) Galeodes melongena (673) 53. Galeodes mespilus (680) 53.† 150. Galeodes tuberosa (679) 53. Harpa cancellata (1079) 150. (After Glandina, see Oleacina, 110. Ch.) Glycymeris, see Tuceta, 172. Harpa cithara (1874) 150.\* (= 1872.) Halia, see Ampulla, Bulla, Harpa davidis (1878) 150. and Helix, III. Harpa doris (1876) 150. Harpa major (1872) 149. Halia priamus (1422) 111. Harpa minor Lam. 7; (1877) 150. Haliotis aleata (161) 14. Haliotis asinina L. Mus. Ulr. (166) Harpa nobilis (1875) 150. (Also 14. Lam.) Haliotis asinium Gm. 6; (166) 14. Harpa rosea Lam. 6; (1876) 150. Haliotis australis Gm. 9; (161) 14. Harpa striata Lam. 8; (1879) 150. Haliotis caelata (157) 13. Harpa ventricosa var. Kiener f. 7. Haliotis canaliculata Lam. (159) 13. (1879) 150. Haliotis cingulata (159) 13. Helix albida (1374) 107.† Haliotis cochlear (153) 13.† Helix algira Gm. 11; (951) 74. Haliotis elephantina (148) 13.<sup>†</sup> Helix amarula Gm. 126; (1404) 109. Helix ampullacea Gm. 43 y; (934) Haliotis gigantea Gm. 18; (147) 13. Chemn. x., 1610. 73. Haliotis gigas (147) 13. Helix ampullacea Gm. 43  $\beta$ ; (1823) Haliotis glabra Gm. 14; (165) 14. 145. Helix angaria (1402) 109. Haliotis granulata (163) 14. Helix biliosa (1380) 107. Haliotis incrustata (158) 13.7 Helix brunnea (1373) 107.† Haliotis iris Martyn (149) 13. Haliotis iris Gm. 19; (149) 13. Helix buccinulum (1403) 109. Haliotis marmorata Gm. 5; (164) Helix carinata (1375) 107.† Helix carocolla Gm. 26; (1000) 77. 14. Haliotis midæ (L.) Gm. 1; (150) 13. Helix cicatrosa Desh. (952) 74. Haliotis nævosa Martyn (147) 13. Helix cicatricosa Gm. 4; (952) 74-Haliotis ovina Gm. 17; (157) 13. Helix cincta Gm. 56; (935) 73.

Helix citrina Gm. 49; (953, 958) 70. Helix nivea Gm. 176; (937) 73. Helix oblonga Gm. 87; (1365) 106. Helix citrina (1382) 107.† Helix columna Gm. 122; (1393) 108. Helix palustris (1400) 109. Helix pellis-serpentis Gm. 254; Helix contraria Gm. 99; (1391) 108. Helix cookiana Gm. 230; (1080) 83. (030) 73. Helix perversa Gm. 94  $\gamma$ ; 94  $\beta$ ; Helix cookiana Lam. (1131) 87. Helix cornea Gm. 35; (922) 72. (1380, 1385) 107, 108. Helix cornu-arietis Gm. 41; (921) Helix phasianus (1395) 108. Helix picta Gm. 189; (997) 76. 72. Helix cornu-militare Gm. 29; (936) Helix pileus Gm. 69; (1127) 87. Helix planorbis Gm. 20; (931) 73. 73. Helix crocea Gm. 243; (1171) 90. Helix pomatia Gm. 47; (990) 76. Helix priapus Gm. (1422) 111. Helix decollata Gm. 115; (1172) 90. Helix pudica Gm. 102; (1357) 106. Helix detrita Gm. 139; (1370, 1371, Helix pulverulenta (1397) 109.† 1377) 107. Helix pupa Gm. 124; (1168) 90. Helix dextra Gm. 95; (1383) 108. Helix elongata (1371) 107. Helix rallus (1369) 107. Helix rhodea Gm. 239; (950) 74. Helix ellobioides (1368) 107.† Helix ringens Gm. 22; (1021) 78. Helix ericetorum Gm. 65; (916) 71. Helix fasciata (1360) 106. Helix scalaris Gm. 116; (992) 76. Helix scarabæus Gm. 1; (1346) 105. Helix fragilis (1399) 109.\* (=Helix sinuata Gm. 23; (1019) 78. 1398.) Helix flammea Gm. 88; (1394) 108. Helix speciosa (1392) 108.\* (= Helix fulica (1367) 107.† 1391.) Helix spiriplana Desh. (950) 74. Helix fuscata Gm. 240; (1231) 95. Helix stagnalis Gm. 128; (1398) 109. Helix gigantea Lam. (936) 73. Helix testacea (1389) 108.\* (=Helix globulus (1366) 107.† 1387.) Helix haliotoidea Gm. 152; (171) 14. Helix hepatica (1358, 1359-60-64) Helix testa-ovi (1359) 106.\* (= 1358.) 106, Helix hortensis Gm. 109; (946) 74. Helix tumida (1370) 107. Helix unguicula Desh. (925) 72. Helix hyalina Gm. 180; (933) 73. Helix ungulina Gm. 75; (925) 72. Helix interrupta (1391) 108. Helix ustilago (1394) 108. Helix inversa Gm. 97; (1387) 108. Helix variegata (1396) 109.† Helix jamaicensis Lam. (932) 73. Helix jamaicensis Gm. 234; (994) Helix vivipara Gm. 105  $\beta$ ; (1401) 76. 109. Helix volvulus Gm. 91.; (917) 72. Helix janthina Gm. 103; (963) 75. Helix labiosa Gm. 101; (1356) 106. Helix zonaria Gm. 63; (927) 72. Hemicardium, see Fragum, 189. Helix lactea Gm. 237; (942) 74. Hippopus, see Tridachnes, 172. Helix læva Gm. 100; (1390) 108. Hippopus maculatus Lam. (196) 172. Helix lapicida Gm. 2; (918) 72. Helix ligata Desh. Gm. 57; (990, Ianthina bombarda (088) 76.7 991) 76. lanthina cytherea (967) 75. Helix ligata (1372) 107.† Ianthina flammeola (993) 76. Helix listeri (1303) 108. Ianthina jamaicensis (994) 76. Helix marginella Gm. 162; (1002) Ianthina linearia (996) 76.† 77.

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Lambis carinata (779) 62.

Lambis carnaria (809) 64.\* 808.) Lambis carnea (808) 63. Lambis cerea (846) 66.\* (=844.) Lambis chiragra (856) 67. Lambis cingulata (801) 63.† Lambis contorta (839) 66. Lambis coriacea (798) 63.7 Lambis curruca (812) 64. Fav. 21. A 4. Lambis davillæ (847-50) 66. Dav. 14. f. Lambis decora (777) 62. Lambis dentata (790) 62. Lambis elegantissima (773) 61. Lambis epidromis (834) 65. Lambis fragilis (792) 62. (cf. 782, 790.) Lambis gallus (322) 64. Lambis gibberula (782) 62. Lambis gibbosa (786) 62.\* (= 782.) Lambis gigas (842) 66. Lambis grisea (800) 63.† Lambis harpago (860) 67. Lambis hermaphrodita (875) 68.\* (=844.)Lambis labiata (806) 63.\* (=807.) Lambis laciniata (877) 68.\* (= 844.) Lambis lambis (844) 66. Lambis lamboides (845) 66.\* (= 844.) Lambis latissima (827) 65. Lambis lentiginosa (795) 63. Lambis lobata (826) 65. Lambis lobata (872) 68.\* (=844.) Lambis luhuana (774) 61. Lambis maculata (654) 67.\* (= 844.) Lambis millipeda (855) 67. Lambis minimus (836) 65. Lambis pespelicani (869) 68. Lambis picta (793) 62. Lambis pipa (804) 63.\* (=796.)Lambis plicata (835) 65. Lambis puellaris (799) 63.† Lambis pugilis (768, 816) 61. (Not Gm.)

Lambis radix (853) 67. Lambis rana (802) 63.\* (=796.)Lambis rosea (794) 63.† Lambis rubiginosa (797) 63.† Lambis scorpius (857) 67. Lambis stiva (815) 64. (=814.)Lambis succincta (781) 62. Lambis turrita (810) 64. Lambis turturella (833) 65.\* (= 828.) Lambis undulata (873) 68.\* (=844.) Lambis urceus (807) 63. Lambis velamen (825) 65.\* (=)822.) Lambis velum (823) 65.\* (=822.) Lambis ventricosa (793<sup>2</sup>) 63.† Lambis venusta (772) 61. Lambis vittata (838) 66. Lambis vomer (821) 64. Lampadion carocolla (1000) 77. Lampadion chinense (1006) 77. Lampadion labyrinthus (1018) 78. Fav. 63-2. Lampadion lucerna (1016) 78.† Lampadion marginatum (1002) 77. Lampadion orbiculare (1003) 77. Lampadion ringens (1021) 78. Lampadion sinicum (1005) 77.† Lampadion testaceum (1001) 77. Lampadion trilineatum (1004) 77.† Lampadion tumidum (1017) 78.† Lampadion turritum (1019) 78. Laternula anatina (14) 155. Laternula truncata (13) 155. Latirus, see Fusus, 119. Leda rostrata Schum. (221) 174. Lepas, see Bernicla, 198. Lepas anatifera Gm. 13; (474) 198. Lepas anserifera Gm. 12; (475) 198. Lepas diadema Gm. 4; (466) 197. Lepas echinata (471) 197. Lepas mitella Gm. 10; (479) 198. Lepas ovata (472) 197.† Lepas pollicipes Gm. 24; (478) 198. Lepas rosata (468) 197.\* (= 467.) Lepas senticosa (469) 197.† Lepas spinosa Gm. 22; (470) 197.

Lepas testudinaria Gm. 6; (473) 197. L. Mus. Ulr. Lepas tintinnabulum Gm. 3; (467) 197. Leucozonia, see Lagena. 131. Leucozonia ocellata (1654<sup>2</sup>) 131. Lima, see Mantellum, 160. Lima glacialis Lam. (61) 160. Lima inflata Lam. 1; (62) 160. Lima squamosa Lam. (64) 161. Lingula, see Pharetra, 159. Lingula anatina Lam. (46) 159. Lithodomus, see Lithophaga, 156. Lithodomus dactylus Sby. (17) 156. Lithophaga mytuloides (17) 156. Littorina grönlandica (1144) 88. Littorina litorea L. (1143) 88. Littorina neritoides Fer. (1342, 1344) 104. Littorina obtusata Fer. (1341) 104. Littorina sulcata Mke. (1145) 88. Livona, see Turbo. 86. Lopha cornucopiae (157) 169. Lopha crista-galli (152) 168. Lepha folium (156) 169. Lopha frons (155) 169. Lopha hyotis (154) 169. Lopha plicatella (161) 169.† Lopha theca (159) 169. Lucina, see Tellina, 188. Lucina edentula Lam. (380) 188. Lucina pensylvanica Lam. (379) 188. Lunatica argentata (1311) 102. Lunatica argyrostoma (1310) 102. Geve. 17, f. 160. Lunatica aruginosa (1300) 101. Lunatica brunea (1315, 1317-18) 102. Lunatica chrysostoma (1303) 101. Lunatica cingulata (1322) 103.\* Lunatica citrina (1306) 103.\* (= 1303.) Lunatica denigrata (1324) 103.\* Lunatica granulata (1308) 102. Lunatica imperialis (1301) 101. Lunatica maculata (1312) 102. Geve. 17: 150 a-b. 161.

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1708.)	Mitra præstantissima (1726) 138.
Mitra cardinalis Bolten non Lam.	Mitra pulcherrima (1724) 138. <sup>†</sup>
(1695) 135. cf. 1707.	Mitra sanguinea (1730) 138.†
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Mitra elata (1721) 137.	(27) 157.
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(=Pomatia succinea (953) 74. 058.) Pomatia transparens (962) 75.† Pomatia usta (945) 74.† Porphyria amethystina (440) 35. Porphyria amoena (399) 33.\* Porphyria arachnoidea (450) 36. Porphyria aurata (402) 33.\* Porphyria bulbosa (459) 37. Porphyria cærulea Gm. 17 K; (392) 33. Porphyria cæsia (446) 36. Porphyria cingulata (415) 34.\* Porphyria coffea (462) 37. Porphyria conoidea (430) 35.† Porphyria cornea (448) 36.† Porphyria dealbata (427) 35. Knorr, VI, 34, 4-5. Porphyria fasciata Gm. 16.  $\gamma$ ; (387) 32. Porphyria fasciata Gm. 17; (411) 34. Porphyria fenestrata (417) 34.\* Porphyria fimbriata (410a) 34.<sup>†</sup> Porphyria fulgurator (453) 36. Porphyria griseola (424) 35.<sup>†</sup> Porphyria hepatica (400) 33.\* Porphyria isabella (401) 33.\* Porphyria ispida (431) 35. Porphyria labradoriensis (389) 32. Porphyria litterata (452) 36. (Not Oliva litterata Lam.) Porphyria lutaria (421) 34. Porphyria mica (436) 35. Porphyria miniacea (391) 33. Porphyria oculata (426) 35.† Porphyria oliva (410) 34. Porphyria ornata (398) 33.\* Porphyria paleacea (442) 36.<sup>†</sup> Porphyria papyracea (443) 36.† Perphyria porphyria (386) 32. Porphyria punctata (397) 33.\* Porphyria quercina (418) 34. Knorr, V. 26, 4. Porphyria reticulata (396) 33. Porphyria rubicunda (422) 35.\* Porphyria ruffina (388) 32. Porphyria sepultura-principis Rumph. 39, 4; (403) 33.

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Tellina maculosa Lam. (344) 185.	Terebra crenulata Lam. (1219) 94.
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	Terebra flammea Lam. (1216) 94.
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353.)	Terebra maculosa Lam. (1204) 93.
Tellina operculata Gm. 22; (350)	Terebra muscaria Lam. (1205) 94.
186.	Terebra myuros Lam. (1224) 95.
Tellina ovata (366) 187.*	Terebra oculata Lam. (1214) 94.

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Tritonium minutum (1615) 125.† Trochus asper (1046) 80. Tritonium natator (1636) 127. Trochus asper Gm. 105; (1110) 86. Trochus cælatus Gm. 95; (1095) 84. Tritonium neptuni (1612) 125.† Trochus calcar Ch. (1031) 79. Tritonium nicobaricum (1630) 126. Tritonium olearium (1622) 126. Trochus canaliculatus Phil. (1108) Tritonium olfactoriolum (1625) 126. 85. Trochus carneolus Lam. (1161) 89. Tritonium opis (1613) 125. Tritonium pyrum Lam. (1620<sup>2</sup>) 129. Trochus carneus Gm. 51; (1161) 89. Tritonium reticulans (1652) 128. Trochus castrensis (1054) 81. Tritonium rubecula (1634) 127. = Trochus communis (1085) 83. (= 1631. 1083.) Tritonium rubeta (1645) 128. Trochus conchiliophorus Gm. 110; Tritonium scrobiculator (1642) 127. (1040) 80. Tritonium simpulum (1649) 128. Trochus conspersus Gm. 23; (1052-Tritonium tuberosum Lam. (1676) 3) 81. Trochus conulus Gm. 79; (1083, 133. Tritonium tritonis (1609) 125. 1085) 83. Tridachnes arcinella (198) 172. Trochus cookii Gm. 97; (1087, 1106) Tridachnes derasa (195) 172. 84. Tridachnes gigas (184, 188) 171. Trochus declivis (1063) 82. Tridachnes hippopus (196) 172. Trochus diaphanus Gm. 85; (1140) Tridachnes imbricata (190) 172. 88. (= 186.)Trochus dolabratus Gm. 116; (1237) Tridachnes maxima (184) 171.\* (= 96. 188.) Trochus erythræus Phil. 180; (1056, Tridachnes noæ (186, 190) 171. 1099) 81. Tridachnes ungula (197) 172.\* (= Trochus fenestratus (1073) §2. 196.) ` Trochus flammeus (1044) 80. Tridacna crocea Lam. (185) 171. Trochus forskåhlii (1070) 82. Tridacna gigas Lam. (184) 171. Trochus foveolatus Gm. 84  $\beta$ ; Tridacna serrifera Lam. (195) 172. (1070) 82. Tridacna squamosa Lam. (186, 190) Trochus globulus (1080) 83. List. 171. 62, 60, Trisidos arca<sup>1</sup> tortuosa (228) 175. Trochus gothicus (1071) 82. Trochus ægyptiacus Gm. 41; (1063, Trochus grandinatus (1047) 80. 1092) 82. Trochus granularis (1050) 81. Trochus æruginosus (1078) 83. Trochus granulatus Born. (1078) 83. Trochus agglutinans Lam. (1040) Trochus guineënsis Gm. 49; (1160) 80. 80. Trochus americanus Gm. 94; (1068) Trochus guttatus (1053) 81. Geve. 82. VII, 50 a-b. Trochus helicinus Gm. 101<sup>1</sup>; (1079) Trochus anilis (1068) 82. Trochus argyrostomus Gm. 102; 83. Trochus hybridus Gm. 4; (1027) 79. (1119) 87. <sup>1</sup> The "arca" is a lapsus. <sup>1</sup> T. tuber, worn!

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Trochus imperialis Gm. 63; (1028) 79.	Trochus pyramis (1076) 83. cf. 1059.
Trochus.imbricatus Gm. 93; (1065, 1066) 82.	Trochus radiatus Gm. 33 γ; (1050) 81.
Trochus inermis Gm. 62; (1037) 79.	Trochus rudis Phil. (1142) 88.
Trochus interruptus (1061) 82.†	Trochus rugosus (1066) 82. Knorr,
Trochus iris Gm. 86; (1132) 87.	III, 29, 1-2.
Trochus jujubinus Gm. 19; (1064)	Trochus rugosus Phil. (1094) 84.
82.	Trochus rusticus Gm. 35; (1121) 87.
Trochus jujubinus Gm. 80 β; (1081) 83.	Trochus sinensis Gm. 103; (1118) 86.
Trochus jujubinus (1082) 83. (=	Trochus solaris Gm. 15; (1029) 79.
1078.)	Trochus solaris Gm. 15β; (1036) 79
Trochus labeo Gm. 76; (1086) 84.	Trochus spinosus (1067) 82.†
Trochus labeo Gm. 7; (1147) 88.	Trochus stellaris (1049) 81.
Trochus longispina Lam. (1036) 79.	Trochus stellatus Gm. 26; (1049)
Trochus lunatus (1064) 82.	81.
Trochus maculatus Gm. 2; (1047)	Trochus stramineus Gm. 59; (1026)
80.	78.
Trochus magus Gm. 7; (1056) 81.	Trochus striatus (1058) 81.†
Trochus magus Gm. 7; (1098, 1107)	Trochus tectum-sinense (1057) 81.†
85.	Trochus tentorialis (1055) 81. (=
Trochus magus Gm. 7; (1107) 85.	1054.*)
Trochus marmoratus Lam. 37;	Trochus tessellatus Gm. 52; (1108)
(1044) 80.	85.
Trochus mauritianus Gm. 99;	Trochus tessellatus Gm. 106; (1122) 87.
(1071) 82. Trochus merula Lam. 22; (1118) 86.	
Trochus nasutus (1052) 81.	Trochus tornatus (1081) 83. Trochus tranquebaricus Gm. Pfr.
Trochus niloticus Gm. 1; (1043,	(1081, 1084) 83.
1076) 80.	Trochus trochlea (1062) 82.†
Trochus nodulus Gm. 50; (1159) 89.	Trochus tuber Gm. 79; (1079, 1102)
Trochus noduliferus Lam. 27;	85.
(1070) 82.	Trochus turboidea (1056) 81.
Trochus novae-zeelandiae (1086) 84.	Trochus turritus (1059) 81.
Trochus obeliscus Gm. 81; (1075) 83.	Trochus umbilicaris Lam. 80; (1142) 88.
Trochus ochroleucus Gm. 25; (1054,	Trochus undatus (1045) 80. Geve.
1055) 81.	VI, 44 a-b.
Trochus papillaris (1074) 83.* (=	Trochus urbanus Gm. 48; (1155) 89.
1046.)	Trochus variegatus (1077) 83.†
Trochus perspectivus Gm. 3; (1022)	Trochus vernalis (1051) 81.
78.	Trochus vernus Gm. 26; (1051) 81.
Trochus pharaonis Gm. 6; (1156,	Trochus verrucosus (1060) 81.†
1157-8) 89.	Trochus vestiarius Gm. 75; (1006)
Trochus plicatus (1065) 82.	77.
Trochus pyramis Gm. 39; (1059) 81.	Trochus virgatus Gm. 83; (1046,
cf. 1076.	1050, 1074) 80.

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Trochus zizyphinus Gm. 80; (1078, 1082) 83. Tuceta glicymeris (200, 205) 172. Tuceta inflata (203) 173.\* (= 199.) Tuceta lentiginosa (201) 172. Tuceta mytiloides (205) 173.\* (=200.) Tuceta pectunculus (206) 173. Tuceta pilosa (199) 172. Tuceta sinuata (204) 173. Tuceta undata (202) 173.\* (=200.) Tudicla carinata (1821) 145. Tudicla gutturnium (1822) 145. Turbinella, see Fusus, 118. Turbinella, see Nucella, 131. Turbinella, see Vasum, Volema. Turbinella, see Xancus, 134. Turbinella capitellum Lam. (712) 56. Turbinella ceramica Lam. (714) 57. Turbinella cingulifera Lam. (1531) 110. Turbinella cornigera Lam. (713) 56. Turbinella craticulata Lam. (1540) 119. Turbinella infundibulum Lam. (1536) 119. Turbinella ocellata Lam. (1654<sup>2</sup>) 131. Turbinella polygona Lam. (1525, 1535) 118. Turbinella pugillaris Lam. (711) 56. Turbinella pyrum Lam. (1686, 1687) 134. Turbinella rapa Lam. (1682) 134. Turbinella rustica Lam. (1644<sup>2</sup>) 131. Turbo, see Lunatica, 101. Turbo aculeatus Gm. 48; (1031) 79. Turbo acutangulus Gm. 78; (1185) 92. Turbo ægyptiacus (1158) 89.\* (=1156.) Turbo æthiops (1120) 87 (?= 1110.) Turbo agrestis (1121) 87. Turbo argyrostomus Gm. 41; (1315) 102.

Turbo aurantiacus (1133) 88.‡ Turbo balaustinus (1138) 88.† Turbo bidens Gm. 87; (1170) 90. Turbo calcar Gm. 13; (1039) 80. Turbo canaliculatus Gm. 22; (1311) 102. Turbo chrysostomus Gm. 10; (1303, 1304-6) 101. Turbo cidaris Gm. 34; (1335) 104. Turbo clathrus Gm. 63; (1179) 91. Turbo cornutus Gm. 18; (1302) 101. Turbo coronatus Gm. 21; (1330) 103. Turbo crenulatus (1161) 89. Turbo crenulatus Gm. 29; (1308) 102 Turbo davidis (1144) 88. Turbo delphinus Gm. 44; (909) 71. Turbo delphinus Gm. 44 γ; (913) 71. Turbo diaphanus Lam. (1140) 88. Turbo distortus Gm. 46; (910) 71. Turbo duplicatus Gm. 79; (1184) 92. Turbo elegans (1162) 89.† Turbo galerus (1129) 87.† Turbo globulus (1131) 87.\* Turbo granatum (1137) 88. Martyn 75. Turbo granulatus (1134) 88.† Turbo granulatus Gm. 51  $\beta$ ; (1332) 104. Turbo groenlandicus (1145) 88. Turbo horticola (1126) 87.† Turbo imbricatus Gm. 76; (1192, 1199) 93. Turbo imperialis Gm. 20; (1301) 101. Turbo iris (1132) 87. Turbo irregularis (1136) 88.† Turbo labellum (1152) 89.† Turbo labeo (1147) 88. Turbo lacteus Gm. 66; (1210) 94. Turbo lincina Gm. 71; (1402) 109. Turbo lineola (1130) 87.† Turbo lithantrax (1119) 87. Turbo littoreus Gm. 3; (1143) 88. Turbo margaritaceus (1141) 88.† Turbo marginellus Gm. 102; (967)

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Venus cancellata Lam. (314) 183.	312.)
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(317) 183. L. Mus. Ulr.	Venus litterata conspersa (Ch.) Gm.
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Venus chione (277, 298) 179. Gm.	(240) 176.
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Note.—This index is made from the original edition of 1798; the phototypic reproduction has a few obscurities which will account for a few apparent but not real discrepancies.

